

AMENDMENTS TO THE CLAIMS

1. (Original) A hydrogen gas generating system, comprising:
a reactant source;
an electrolysis cell disposed in fluid communication with said reactant source;
an electrical source disposed in communication with said electrolysis cell; and
a ventilation system disposed in communication with said electrolysis cell, said ventilation system comprising,
a fan adapted to produce a continuous airflow during operation of the gas generating system,
a sail disposed in operable communication with said fan, said sail being pivotally movable in response to an airflow from said fan, and
a switch disposed in operable communication with said sail and said electrical source, wherein said switch is adapted to discontinue operation of the electrolysis cell upon the malfunction or failure of ventilation system.

2. (Original) The gas generating system of claim 1 wherein said switch comprises a magnetically actuatable reed switch.

3. (Original) A hydrogen gas generator, comprising:
a proton exchange membrane electrolysis cell; and
a ventilation system disposed in fluid communication with said proton exchange membrane electrolysis cell, said ventilation system comprising,
a fan portion, said fan portion being configured to produce a continuous airflow,
a switch disposed in electronic communication with said proton exchange membrane electrolysis cell, and
a sail configured to receive the airflow from said fan portion, said sail being pivotally movable in response to the airflow from said fan portion, said sail being disposed in actuatable communication with said switch, and said sail being configured to actuate said switch upon pivotal movement of said sail, wherein said switch is adapted to discontinue operation of the electrolysis cell upon the malfunction or failure of ventilation system.

4. (Original) The hydrogen gas generator of claim 3 wherein said sail comprises a magnet disposed thereon, said magnet being actuatably communicable with said switch.

5. (Original) The hydrogen gas generator of claim 3 wherein said switch comprises a magnetically actuatable reed switch.

6 - 12. (Cancelled)

13. (Currently Amended) ~~An~~ A hydrogen gas generating electrolysis cell, comprising:
means for generating a hydrogen gas from a reactant source; and
means for interrupting power to said means for generating hydrogen gas upon detection of a malfunction or failure of a ventilation system.

14. (Original) The electrolysis cell of claim 12 wherein said means for interrupting power to said means for generating gas is a switching device, said switching device being magnetically actuatable in response to pivotal motion of a sail.